Special Issue

Antimicrobial Metabolites: Discovery, Biosynthesis, High-Yield Production and Antimicrobial Mechanisms

Message from the Guest Editors

Antimicrobial resistance has emerged as one of the most pressing global health challenges of our time, posing a significant threat to human health and healthcare systems worldwide. The discovery and development of novel antimicrobial agents require the utmost urgency. Antimicrobial metabolites, natural compounds produced by various organisms, hold great promise in the fight against antimicrobial resistance. These metabolites have diverse chemical structures and unique modes of action, offering potential solutions to combat resistant pathogens. Topics include, but are not limited to, the following:

- Discovery of antimicrobial metabolites from diverse sources.
- Biosynthetic and metabolic pathways of antimicrobial metabolites.
- High-yield production strategies, including strain engineering and fermentation optimization.
- Analysis of the mechanism of antimicrobial metabolites.

Keywords: natural product; peptide; antibacterial; antifungal; antiviral; biosynthesis; high-yield production; antimicrobial mechanism

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Welcome to a new open access journal, Fermentation, which meets the growing need for a high quality peerreviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this new journal and look forward to working with you to make Fermentation a leader in its field. Your contributions are vital for the success of this new journal. Proposals for editing a special issue for a particular topical area are always welcome.

Editor-in-Chief

Dr. Badal C. Saha
Retired, National Center for Agricultural Utilization Research, USDA-ARS, Peoria, IL, USA

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